This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (canceled)

- 1 Claim 2 (currently amended): A loosening-proof nut
- 2 comprising a nut body having a central female thread with
- 3 a nominal diameter d, the nut body having an upper
- 4 portion and a lower portion, wherein the maximum outer
- 5 diameter of the upper portion is less than the minimum
- 6 outer diameter of the lower portion, the nut body also
- 7 having two slits formed such as to be symmetrical with
- 8 respect to the axis of the nut, the two slits radially
- 9 penetrate the female thread from the outer periphery of
- 10 the nut, said slits are located in the upper portion of
- 11 the nut body and are located at the same position in an
- 12 axial direction of the nut body and located at an axial
- 13 position on an upper side of an axial center position of
- 14 the nut body, the slits defining push parts, which are
- 15 have been bent downward resulting in plastic deformation,
- 16 the slits consist of a first and a second slit
- 17 symmetrical with respect to the axis of the nut such that
- 18 all cuts are at a single axial position and the remaining
- 19 upper portion is substantially solid outside of the
- 20 female threaded portion, the push parts consist of a
- 21 first and a second push part defined in the upper portion
- 22 of the nut body by the first and second slit.
 - 1 Claim 3 (previously presented): The loosening-proof nut
 - 2 according to claim 2, wherein the nut body has a height
 - 3 h, a bottom width g of first and second slits, and a
 - 4 thickness of first and second push parts a, the height h

- 5 is at least 0.5 times the nominal diameter d, the bottom
- 6 width g of the first and second slits is 0.05 to 0.2
- 7 times the nominal diameter d, the thickness a of the
- 8 first and second push parts is 0.1 to 0.3 times the
- 9 nominal diameter d.
- 1 Claim 4 (previously presented): The loosening-proof nut
- 2 according to claim 2, wherein a width s defines slit gap
- 3 at the tips of the first and second push parts, the width
- 4 s is in a range of 0 to 0.5 times a bottom width g of the
- 5 first and second slits.
- 1 Claim 5 (previously presented): The loosening-proof nut
- 2 according claim 2, wherein the first and second slits are
- 3 at an angle between 70 and 90 degrees with respect to the
- 4 axis of the nut body and are formed substantially
- 5 symmetrically with respect to the axis of the central
- 6 female thread.
- 1 Claim 6 (previously presented): The loosening-proof nut
- 2 according to claim 2, wherein the upper portion of the
- 3 nut body inclusive of the first and second push parts is
- 4 circular in plan view shape.
- 1 Claim 7 (currently amended): A polygon shaped nut having
- 2 an internal female thread, a first opening from which a
- 3 male thread to be screwed is inserted, and a second
- 4 opening, from which the inserted male thread gets out;
- 5 wherein the nut comprises at least two pairs of slits
- 6 formed at an axial position closer to the second opening
- 7 and such as to be symmetrical with respect to the axis of
- 8 the nut and to radially partly penetrate the female

- 9 thread from the outer periphery of the nut, a first axial
- 10 part defined on the first opening side and a second axial
- 11 part defined on the second opening side bounded by the
- 12 pairs of slits, and the female thread parts of the first
- 13 and second axial parts have the same shape parameter, and
- 14 the direction of the surface, in which the female thread
- 15 part in the second axial part is formed, is deviated from
- 16 the axial direction as a result of plastic deformation
- 17 due to pressure that had been exerted on the nut, and
- wherein each slit of said at least two pairs of
- 19 slits has two endpoints on the outer periphery of the
- 20 nut, and
- wherein each of said endpoints is at the same axial
- 22 position.
 - 1 Claim 8 (currently amended): A nut having an internal
 - 2 female thread, a first opening from which a male thread
 - 3 to be screwed is inserted, and a second opening, from
- 4 which the inserted male thread gets out; wherein the nut
 - 5 comprises at least a pair of slits formed at the same
 - 6 position in an axial direction of the nut body and formed
 - 7 at an axial position closer to the second opening and
 - 8 such as to be symmetrical with respect to the axis of the
 - 9 nut and to radially partly penetrate the female thread
- 10 from the outer periphery of the nut, a first axial part
- 11 defined on the first opening side and a second axial part
- 12 defined on the second opening side bounded by the pair of
- 13 slits, and the female thread parts of the first and
- 14 second axial parts have the same shape parameter, and the
- 15 direction of the surface, in which the female thread part
- 16 in the second axial part is formed, is deviated from the
- 17 axial direction as a result of plastic deformation of the

- 18 second axial part due to pressure that had been exerted
- 19 on the nut, wherein the second axial part and slits are
- 20 included in a second portion of the nut having a smaller
- 21 maximum outside diameter than a minimum outside diameter
- 22 of a first portion of the nut, said first portion of the
- 23 nut being formed to accept a tool used for tightening and
- 24 loosening the nut, and
- wherein all cuts are at a single axial position and
- 26 the remaining second portion of the nut is substantially
- 27 solid outside the female threaded portion.
 - 1 Claim 9 (currently amended): A polygon shaped nut having
 - 2 an internal female thread, a first opening from which a
 - 3 male thread to be screwed is inserted, and a second
 - 4 opening, from which the inserted male thread gets out;
 - 5 wherein the nut comprises at least two pairs of slits
 - 6 formed at an axial position closer to the second opening
 - 7 and such as to be symmetrical with respect to the axis of
 - 8 the nut and to radially partly penetrate the female
 - 9 thread from the outer periphery of the nut, a first axial
- 10 part defined on the first opening side and a second axial
- 11 part defined on the second opening side bounded by the
- 12 pairs of slits, and the female thread parts of the first
- 13 and second axial parts have the same shape parameter, and
- 14 the width of the slit increases as moving from the outer
- 15 periphery toward axis of the nut in the axial direction,
- 16 said second axial part being plastically deformed, said
- 17 variation in slit width caused by plastic deformation of
- 18 the second axial part, and
- wherein each slit of said at least two pairs of
- 20 slits has two endpoints on the outer periphery of the
- 21 nut, and

- wherein each of said endpoints is at the same axial
- 23 position.
- 1 Claim 10 (currently amended): A nut having an internal
- 2 female thread, a first opening from which a male thread
- 3 to be screwed is inserted, and a second opening, from
- 4 which the inserted male thread gets out; wherein the nut
- 5 comprises at least a pair of slits formed at the same
- 6 position in the axial direction of the nut body and
- 7 formed at an axial position closer to the second opening
- 8 and such as to be symmetrical with respect to the axis of
- 9 the nut and to radially partly penetrate the female
- 10 thread from the outer periphery of the nut, a first axial
- 11 part defined on the first opening side and a second axial
- 12 part defined on the second opening side bounded by the
- 13 pair of slits, the female thread parts of the first and
- 14 second axial parts have the same shape parameter, and the
- 15 direction of the surface, in which the female thread part
- 16 in the second axial part is formed, is deviated from the
- 17 axial direction, and the maximum outer diameter of the
- 18 second axial part is smaller than the minimum outer
- 19 diameter of the first axial part, and
- wherein all cuts are at a single axial position and
- 21 the remaining second axial part of the nut is
- 22 substantially solid outside the female threaded portion.
 - 1 Claim 11 (currently amended): A nut having an internal
 - 2 female thread, a first opening from which a male thread
 - 3 to be screwed is inserted, and a second opening, from
 - 4 which the inserted male thread gets out; wherein the nut
 - 5 comprises at least a pair of slits formed at the same
 - 6 position in the axial direction of the nut body and

- 7 formed at an axial position closer to the second opening
- 8 and such as to be symmetrical with respect to the axis of
- 9 the nut and to radially partly penetrate the female
- 10 thread from the outer periphery of the nut, a first axial
- 11 part defined on the first opening side and a second axial
- 12 part defined on the second opening bounded by the pair of
- 13 slits, and the female thread parts of the first and
- 14 second axial parts have the same shape parameter, the
- 15 second axial part being plastically deformed to increase
- 16 the width of the slits toward the axis of the nut; and
- 17 the maximum outer diameter of the second axial part is
- 18 set to be smaller than the minimum outer diameter of the
- 19 first axial part, and
- wherein all cuts are at a single axial position and
- 21 the remaining second axial part of the nut is
- 22 substantially solid outside the female threaded portion.
 - 1 Claim 12 (previously presented): The nut according to
 - 2 claim 7, wherein the outer periphery of the second axial
 - 3 part is circular in shape.
 - 1 Claim 13 (previously presented): The nut according to
 - 2 claim 7, wherein the first and second axial part have
 - 3 substantially the same shape.
 - 1 Claim 14 (previously presented): The nut according to
 - 2 claim 7, wherein the female thread part formation surface
 - 3 direction of the second axial part is set to be outward
 - 4 from the axis of the nut.
 - 1 Claim 15 (previously presented): The nut according to
 - 2 claim 7, wherein the at least two pairs of slits are

- 3 formed at predetermined positions uniformly subtending
- 4 the circumference.
- 1 Claim 16 (previously presented): The nut according to
- 2 claim 7, wherein the maximum outer diameter of the second
- 3 axial part is smaller than the minimum outer diameter of
- 4 the first axial part.

Claim 17-18 (canceled)

- 1 Claim 19 (currently amended): A polygon shaped
- 2 loosening-proof nut comprising a nut body having a
- 3 central female thread with a nominal diameter d, the nut
- 4 body also having more than two slits formed such as to be
- 5 symmetrical with respect to the axis of the nut, the more
- 6 than two slits radially penetrate the female thread from
- 7 the outer periphery of the nut and are located on an
- 8 upper side of an axial center position of the nut body,
- 9 the slits defining push parts, which have been bent
- 10 downward resulting in plastic deformation The loosening
- 11 proof nut according to claim 1, wherein the more than two
- 12 slits comprise multiple pairs of slits, and
- wherein each slit of said more than two slits has
- 14 two endpoints on the outer periphery of the nut, and
- wherein each of said endpoints is at the same axial
- 16 position.
 - 1 Claim 20 (previously presented): The loosening-proof nut
 - 2 according to claim 19, wherein the multiple pairs of
 - 3 slits are located at an axial position on the upper side
 - 4 of the axial center position of the nut body.

- 1 Claim 21 (previously presented): A loosening-proof nut
- 2 according to claim 2, wherein a distance b between the
- 3 bottoms of the first and second slit is in a range of
- 4 0.15 to 0.8 times the nominal diameter d.
- 1 Claim 22 (previously presented): The loosening-proof nut
- 2 according to claim 2, wherein the lower portion of the
- 3 nut body is one of a hexagon and square shape are viewed
- 4 from above.
- 1 Claim 23 (previously presented): The loosening-proof nut
- 2 according to claim 2, wherein the lower portion of the
- 3 nut body is formed to accept a tool used for tightening
- 4 and loosing the nut.
- 1 Claim 24 (previously presented): The loosening proof nut
- 2 according to claim 5, wherein the angle is slanted and
- 3 wherein the angle and slant direction are selected to
- 4 adjust reaction forces of the first and second push
- 5 parts.

Claim 25 (canceled)

- 1 Claim 26 (previously presented): The loosening proof nut
- 2 according to claim 4, wherein said plastic deformation
- 3 and said difference in gap width s and g result in
- 4 asymmetric retaining tension levels of the locking
- 5 feature depending upon nut rotation direction.